BIOHYD FR HFDU

*FULLY SYNTHETIC BIODEGRADABLE HYDRAULIC FLUID **FIRE-RESISTANT** / HFDU SPECIFICATION*

Description

LUBECO™ BIO HYDRAULIC OIL FR HFDU is a high performance, fire-resistant, readily biodegradable hydraulic fluid based on synthetic esters. A special additive package delivers excellent extreme pressure properties, thermal oxidation resistance, anti-wear and non-foaming control.

Thanks to the high Viscosity Index **BIO HYDRAULIC OIL FR HFDU** provides extremely wide operating temperature range. **BIO HYDRAULIC OIL FR HFDU** allows for very long oil-change intervals resulting in cost effectiveness and CO2 emissions reduction.

BIO HYDRAULIC OIL FR HFDU is produced in viscosity classes 32/46/68.

Specifications

- **HFDU: ISO 6743/4**

Areas of Application

BIO HYDRAULIC OIL FR HFDU is specifically designed for use in all hydraulic systems, both hydrostatic and hydrodynamic. **BIO HYDRAULIC OIL FR HFDU** is recommended for hydraulic applications in environmentally sensitive areas with a high fire risk – immediate vicinity of potential flame or heat sources. **BIO HYDRAULIC OIL FR HFDU** is particularly used in mining, power generation, railway and power line maintenance, construction, earth moving and other industries.

BIO HYDRAULIC OIL FR HFDU is well compatible with the most commonly used elastomers and it can be mixed with other mineral or synthetic hydraulic fluids.

Before changing over to **BIO HYDRAULIC OIL FR HFDU range** verify compatibility and enquire for our filling instructions.
Note: Cleaning function of BIO HYDRAULIC OIL FR HFDU fluids may loosen any deposits in the hydraulic system.

Characteristic features:

- Very good fire-resistance – reducing possibility of ignition in case of fluid leakage;
- Ultimate performance and anti-wear protection;
- Outstanding thermal oxidation stability;
- Extra high Viscosity Index - wide operating temperature range;
- Very long oil-change interval > reduction in CO2 emissions;
- Non-toxic, readily biodegradable
- EU Ecolabel Certificate of Environmental Excellence (No. CZ/027/001)

EU Ecolabel www.ecolabel.eu CZ/027/001

CO2

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Typical characteristics

PARAMETER	UNIT	TEST METHOD	BIOHYD FR HFDU ISO VG 32	BIOHYD FR HFDU ISO VG 46	BIOHYD FR HFDU ISO VG 68
Density at 15 °C	kg/m^3	ISO 12185	965	920	922
Kinematic Viscosity at 40°C (ISO VG)	mm^2/s	ISO 3104	32	46	68
Kinematic Viscosity at 100°C (ISO VG)	mm^2/s	ISO 3104	6.9	9.5	13.8
Fire point	°C	ASTM D92	> 360	> 360	> 300
Pour point	°C	ISO 3016	< -35	< -40	< -40
Flash point, COC	°C	ISO 2592	> 320	> 320	> 300
Viscosity index	-	ASTM D2270	185	196	210
FZG Gear Test A 8.3/90 Damage load level	rating	DIN 51354/2	> 12	> 12	> 12
Copper Strip Corrosion at 100°C/3h			1a	1a	1a
Biodegradability (within 28 days)	%	OECD 301D	Exceeds	Exceeds	Exceeds

The above-listed data represent average values. Material Safety Data Sheet available on request.

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